

## ECS Configuration Change Request

Page 1 of 2 Page(s)

1. Originator Mac McDonald	2. Log Date: 10/06/98	3. CCR #: 98-1077	4. Rev: —	5. Tel: x0364	6. Off: 2056	7. Org. SED
8. Title of Change: Ingesting EDOS Ancillary Data at DAACs other than GSFC						
9. Originator Signature <i>Mac McDonald</i>	10. Date: 10/6/98	11. Class II	12. Type: CCR	13. Need Date: 10/7/98		
14. Office Manager Signature <i>th</i>	15. Date: 10/6/98	16. Date CCB Decision Needed:	17. Category of Change: Other	18. Priority: Routine		
19. Documentation/Drawings Impacted: Capabilities in Verification Database		20. Schedule Impact:		21. CI(s) Affected: INS, CSS		
22. Release Affected: 4PY	23. Date due to Customer:	24. Impl. Date: 10/98	25. Effectivity of Change: 4PY	26. Est. Cost None		
27. Source Reference: <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> GSFC CCR <input type="checkbox"/> Tech Ref. <input type="checkbox"/> Other:						
28. Description of Change: (use additional Sheets if necessary) As an interim solution until remote DAAC insert/acquire is available, develop and deploy a cron job which would periodically (configurable by operations - default to 1 hour) copy all Product Delivery Records (PDRs) and EDOS Signal Files (XFRs) for ancillary data from the GSFC DAAC EDOS directory to another directory on the GSFC Ingest host and to the LaRC EDOS polling directory.  (see attachment for details)						
29. Proposed Solution: (use additional sheets if necessary) Add the following new Capabilities to the ECS Verification Database: 1) Ingest Capability 245; Clean up script for O&A PDR and XFR files at GSFC 2) Infrastructure Capability 4015; cron job to move O&A PDR and XFR files (see file ccrCap.xls for Capabilities details and file ccrFeat.xls for Feature mapping)  Corresponding NCRs (18141 for INS and 18147 for IDG) have also been opened.						
30. Alternate Solution: (use additional sheets if necessary)						
31. Consequences if Change(s) are not approved: (use additional sheets if necessary) No EDOS orbit information (primary attitude comes from FDS) is available at DAACs other than GSFC to support data processing.						
32. Does Change Affect Any of the following (Please Explain on additional sheet): <input type="checkbox"/> Maintenance Training <input type="checkbox"/> Performance <input type="checkbox"/> Operation Training <input type="checkbox"/> Safety <input type="checkbox"/> Service <input type="checkbox"/> Support <input checked="" type="checkbox"/> Test <input type="checkbox"/> Baseline (XRP) <input type="checkbox"/> Y2K Compliance						
33. Organization(s) Affected: <input type="checkbox"/> CM <input type="checkbox"/> Clearcase SG <input type="checkbox"/> Contracts <input checked="" type="checkbox"/> Chief Eng <input type="checkbox"/> FOS <input type="checkbox"/> M&O <input type="checkbox"/> QO <input checked="" type="checkbox"/> Rel Dev <input type="checkbox"/> Procurement <input type="checkbox"/> RTSC <input type="checkbox"/> Sci. Data Eng <input type="checkbox"/> Security <input checked="" type="checkbox"/> Sys. Dev. <input checked="" type="checkbox"/> Sys. Eng. <input checked="" type="checkbox"/> Sys Verf Acpt <input type="checkbox"/> Other						
34. Site(s) Affected: <input type="checkbox"/> EDF <input type="checkbox"/> Mini-DAAC <input type="checkbox"/> VATC <input type="checkbox"/> EDC <input type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> Other						
35. Board Comments:				36. Work Assigned To:		
37. Release Authorized (For CM Use Only): <input type="checkbox"/> Yes <input type="checkbox"/> No			38. CM Verified/Signature and Date			
39. EDF/REL2 CCB Chair (Sign/Date): <i>St. Lunk</i> 10/7/98		40. Disposition: <input checked="" type="checkbox"/> App <input type="checkbox"/> Ap/C <input type="checkbox"/> DisApproved <input type="checkbox"/> Withdraw <input type="checkbox"/> Fwd/ECS <input type="checkbox"/> Fwd/ESDIS		41. ESDIS ERB Concurrence:		
42. ECS CCB Chair (Sign/Date):		43. Disposition: App <input type="checkbox"/> A/C <input type="checkbox"/> DisApproved <input type="checkbox"/> Withdraw <input type="checkbox"/>		44. CCR Closed Date:		

ORIGINAL

## ADDITIONAL SHEET

272

CCR #: 98-1077 Rev: — Originator: Mac McDonald

Telephone: x0364 Office: 2056

**Title of Change:** Ingesting EDOS Ancillary Data at DAACs other than GSFC

Attachment for Item 28. Description of Change:

Due to the unavailability of remote insert or acquires in the launch system, we need to support a backup method of getting the EDOS ancillary data (used for spacecraft ephemeris data) to each site. The Spacecraft Ancillary data is only delivered by EDOS to the GSFC DAAC (in the same directory where all of the EDOS data destined for the GSFC DAAC is delivered). Without modifications INGEST at each DAAC can only poll one directory for EDOS data. Therefore as currently designed INGEST at EDC and NSIDC could be configured to poll GSFC's directory for the Ancillary data but it would see and ingest the MODIS level 0 data also - not a desirable thing. Without changes to Ingest there is no way for LaRC to ingest from it's own directory for CERES, MISR and MOPITT data and also GSFC for ancillary. Therefore, the development of a cron job is proposed which would execute at the GSFC DAAC. This cron job would be used only temporarily until we support remote transfers between DAACs. The cron job would periodically (configurable by operations - default to 1 hour) copy all Product Delivery Records (PDRs) and EDOS Signal Files (XFRs) for ancillary data from the GSFC DAAC EDOS directory to another directory on the GSFC Ingest host and to the LaRC EDOS polling directory.

Ingest at NSIDC and EDC needs to be configured to poll the newly created ancillary directory at GSFC. Ingest at LaRC should be already configured to poll its EDOS directory.

It is not necessary to copy the ancillary data itself (EDOS Construction Record and data file) to the other directories since the contents of PDR (Node and directory information) will direct INGEST to retrieve the data from the existing GSFC EDOS directory.

Also there should be no problem if a PDR and XFR are copied multiple times due to the file still being resident in the GSFC directory on subsequent cycles of the cron job. It is assumed that the copy would overwrite the previous version. Ingest is coded to recognize that a PDR/XFR has already been processed on a previous polling cycle.

As additional information, the PDRs for the ancillary data are of the form:

P042004AAAAAAAAAAAAA\*\*\*\*\*.PDR, while the XFRs are of the form:  
P042004AAAAAAAAAAAAA\*\*\*\*\*.PDS.XFR where \* are wildcards.

There is no problem with duplicate files (Since the wildcards contain time of EDOS creation) and no file that is not an ancillary data PDR/XFR will match this structure.

The tasks to accomplish this are:

Ingest to develop:

- 1) Clean Up script for the O&A PDR and XFR files at GSFC
- 2) Configure INGEST at EDC to poll for the O&A PDR and XFR files at GSFC
- 3) Configure INGEST at NSIDC to poll for the O&A PDR and XFR files at GSFC

IDG to develop:

- 1) Cron job to move the O&A PDR and XFR files at GSFC to another directory at GSFC
- 2) Cron job to move the O&A PDR and XFR files at GSFC to the EDOS polling directory at LaRC

PLS/DPS to configure DPREP to run at every at launch DAAC

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